

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/007306

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B09B1/00 B65G5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B09B B65G E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 582 025 B2 (R. PICKREN) 24 June 2003 (2003-06-24) column 1, line 14 – line 29 column 2, line 59 – column 4, line 40 column 5, line 63 – column 6, line 30 column 11, line 30 – line 47 column 12, line 35 – line 65 figures 1,3	1-7
A	US 4 428 700 A (W. LENNEMANN) 31 January 1984 (1984-01-31) claim 1	8
A	US 3 690 377 A (B. KNIGHT) 12 September 1972 (1972-09-12) abstract	1

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the International search

8 November 2004

Date of mailing of the International search report

15/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Plontz, N

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/007306

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
US 6582025	B2	06-02-2003	US 2003025381 A1		06-02-2003
			CA 2381103 A1		03-02-2003
			EA 4110 B1		25-12-2003
			US 2003132659 A1		17-07-2003
US 4428700	A	31-01-1984	NONE		
US 3690377	A	12-09-1972	NONE		